BBBBBBBBBBB AAA AAA SSSSSSSS RRR	RRRRRRR TTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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BBBBBBBB BBBBBBBBB BB BB BB BB BB BB BBBBBBBB	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	XX		HH H
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Page (1)

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0055
```

MODULE BASSSEXIT HANDL (
TDENT = '1-016'

! BASIC exit handler ! File: BASEXITHA.B32 Edit: PL1016

BEGIN

1.

!*

.

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FACILITY: BASIC support library - Exit handler

ABSTRACT:

This module is used when the image exits to do BASIC post processing. It purges I/O buffers and closes files with proper disposition.

ENVIRONMENT: User access mode; mixture of AST level or not.

Author: John Sauter, Creation date: 23-JAN-1979

MODIFIED BY:

1-001 - Original from FOROPEN. JBS 23-JAN-1979
1-002 - Call OTS\$\$PURGE IOBU to flush any "dirty" buffer. JBS 24-JAN-1979
1-003 - Move call to OTS\$\$PURGE IOBU to OTS\$CLOSE FILE. JBS 24-JAN-1979
1-004 - Change linkage for OTS\$PUSH CCB to JSB CB PUSH and for OTS\$POP CCB to JSB CB POP. JBS 25-JAN-1979
1-005 - Use two dollar signs for non-user entries. JBS 26-JAN-1979
1-006 - Add OTS\$\$CLOSE ALL. JBS 04-JUN-1979
1-007 - Change to BASIC-specific exit handler. JBS 16-AUG-1979
1-008 - Call BAS\$\$PUR IO CLO to flush all buffers. JBS 20-AUG-1979
1-009 - Make BAS\$\$CLOSE ALL global, for BAS\$\$RUN INIT. JBS 21-AUG-1979
1-010 - Signal CLOSE errors, but make the severity "warning" so we don't lose control. JBS 24-AUG-1979
1-011 - Do explicit signalling of CLOSE errors, since OTS\$\$CLOSE_FILE doesn't. JBS 27-AUG-1979

BASSSEXIT_HANDL	E 1 16-Sep-1984 00:26:46 VAX-11 Bliss-32 V4.0- 14-Sep-1984 11:54:57 [BASRTL.SRC]BASEXITHA	742 .832;1
58 59 60 61 62 63 64 65 66 67 68 69 70 71	1 1-012 - Give CLOSE_ALL an optional parameter, so we can close all of the streams connected to a base file. JBS 28-SEP-1979 1 1-013 - Clear BAS\$\$L_XII_LOCK upon entry to the exit handler. This allows user exit handlers to perform I/O, and get the proper cleanup upon leaving. 1 1-014 - If There is a file X that Y and Z have connected to (via open clause (ONNECT) then close Y and Z first and then close X. FM 12-aug-81. 1 -015 - LIB\$SIOP should be declared EXTERNAL. PLL 20-NOV-81 1 1-016 - Edit 1-014 breaks virtual files. BAS\$\$CLOSE_ALL no longer tried to close them if they were open because LUB\$V_M_STR_C was not set. PLL 24-Feb-82 1 Color Co	

Page 2 (1)

```
SWITCHES:
                        SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                        ! LINKAGES:
                        REQUIRE 'RTLIN: OTSLNK':
                                                                           ! Define all linkages
                         ! TABLE OF CONTENTS:
                        FORWARD ROUTINE

BAS$$DECL_EXITH : NOVALUE,

EXIT_HANDLER : NOVALUE,

BAS$$CLOSE_ALL : NOVALUE,

TRY TO CLOSE : CALL_CCB NOVALUE,

CLOSE_RANDLER;
                                                                                 Declare EXIT handler
Exit Handler
                                                                                  Close all files
                                                                                  Subroutine for EXIT_HANDLER
                                                                                 Handler for CLOSE errors
                          INCLUDE FILES:
                        REQUIRE 'RTLML:OTSLUB';
                                                                                ! logical Unit Block definitions
                        REQUIRE 'RTLIN: OTSMAC':
                                                                                ! macros
                        REQUIRE 'RTLIN: BASIOERR':
                                                                                ! I/O error codes
                        REQUIRE 'RTLIN:RTLPSECT':
                                                                                ! Define DELCARE_PSECTS macro
                        LIBRARY 'RTLSTARLE':
                                                                                ! STARLET library for macros and symbols
               1015
                          MACROS:
                                 NONE
                          EQUATED SYMBOLS:
                                 NONE
                          PSECT DECLARATIONS:
                        DECLARE_PSECTS (BAS);
                                                                               ! declare PSECTs for BAS$ facility
                          OWN STORAGE:
                             EXIT_REASON.
                                                                               ! VMS stuffs with reason for exiting
                             EXIT_BLOCK: VECTOR [4] INITIAL (0, ! Filled in by VMS with forward link to next EXIT control block
```

BASSSEXIT_HANDL			G 1 16-Sep-1984 00:26:46	(2)
: 131 : 132 : 133	1036 1037 1038	85:	! Set to EXIT_HANDLER if RTL sets up EXIT handler ! Set to arg count (1) if RTL sets up EXIT handler ! Set to EXIT_REASON if RTL sets up EXIT handler	
135 136 137	1040 1041 1042 1043	GLOBAL BAS\$\$L_XIT_LOCK : INITIAL (0);	! Clear if no handler linked yet	
139 140 141 142	1044 1045 1046 1047	(Used to make sure only one handler e EXTERNAL REFERENCES:	ven if ASTs)	
143 144 145 146	1048 1049 1050	EXTERNAL LITERAL OTS\$_FATINTERR;	! OTS fatal Internal Error	
131 132 133 134 135 136 137 138 139 140 141 143 1445 146 147 148 149 150 151 153 155	1052 1053 1054 1055 1056 1057 1058	EXTERNAL ROUTINE LIB\$STOP: NOVALUE, BAS\$\$CB_PUSH: JSB_CB_PUSH NOVALUE, BAS\$\$CB_POP: JSB_CB_POP NOVALUE, BAS\$\$NEXT_LUN: NOVALUE, BAS\$\$PUR_TO_CLO: NOVALUE, OTS\$\$CLOSE_FILE: CALL_CCB, BAS\$\$SIGNAL_TO: CALL_CCB NOVALUE;	Signal a fatal error Load register CCB Done with register CCB Get next LUN that might be open Purge all I/O buffers Internal file closer Signal a BASIC I/O error	

```
GLOBAL ROUTINE BASSSDECL_EXITH
                                                                                                   Declare VMS EXIT handler
                                    : NOVALUE =
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                                FUNCTIONAL DESCRIPTION:
                                         Declares VMS EXIT handler for BASIC.
                                CALLING SEQUENCE:
                                         IF (NOT .BAS$$L_XIT_LOCK) THEN BAS$$DECL_EXITH ()
                                FORMAL PARAMETERS:
                                         NONE
                                IMPLICIT INPUTS:
                                         NONE
                                IMPLICIT OUTPUTS:
                                         NONE
180
181
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183
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                                ROUTINE VALUE:
COMPLETION CODES:
                                         NONE
SIDE EFFECTS:
                                        Declares VMS EXIT handler.
                  1094
1095
1096
1097
1098
1099
1100
                                   BEGIN
                                   LOCAL
                                        AST_STATUS,
DCLEXH_STATUS;
                                We must disable ASTs to be sure that one and only one exit handler is declared for BASIC.
                                   AST_STATUS = $SETAST (ENBFLG = 0);
                                   IF ( NOT .BAS$$L_XIT_LOCK)
                                   THEN
                                         BEGIN
                              Initialize EXIT handler control block (must do at run time to be PIC)
                                         EXIT_BLOCK [1] = EXIT_HANDLER; Adr.
EXIT_BLOCK [2] = 1; arg
EXIT_BLOCK [3] = EXIT_REASON; adr.
DCLERH_STATUS = $DCLERH (DESBLK = EXIT_BLOCK);
BAS$$L_XIT_LOCK = 1;
                                                                                                    Adr. of EXIT handler to be called on EXIT
                                                                                                    arg count
                                                                                                    adr. to store reason for EXIT
```

```
BASSSEXIT_HANDL
                                                                                                  16-Sep-1984 00:26:46
14-Sep-1984 11:54:57
                                                                                                                                      VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASEXITHA.B32:1
                                                                                                                                                                                              Page
                                                 END
                                           ELSE
                                                 DCLEXH_STATUS = 1:
    216
217
218
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223
                                           IF (.AST_STATUS EQL SS$_WASSET) THEN $SETAST (ENBFLG = 1);
                                           IF ( NOT .DCLEXH_STATUS) THEN LIBSSTOP (OTSS_FATINTERR);
                                           RETURN
                                           END:
                                                                                                                             BASSSEXIT_HANDL
                                                                                                                 .TITLE
                                                                                                                 . IDENT
                                                                                                                 .PSECT
                                                                                                                             _BAS$DATA, NOEXE, PIC.2
                                                                                            00000 EXIT_REASON:
                                                                                                                  BLKB
                              00000000
                                              00000000
                                                            00000000
                                                                            00000000
                                                                                            00004 EXIT_BLOCK:
                                                                                                                             0, 0, 0, 0
                                                                                                                   LONG
                                                                                           00014 BAS$$L_XIT_LOCK::
                                                                            00000000
                                                                                                                            OTS$ FATINTERR, LIB$STOP
BAS$$CB PUSH, BAS$$CB POP
BAS$$NEXT LUN, BAS$$PUR_IO_CLO
OTS$$CLOSE FILE
BAS$$SIGNAL_IO, SYS$SETAST
                                                                                                                 .EXTRN
                                                                                                                 .EXTRN
                                                                                                                 .EXTRN
                                                                                                                 .EXTRN
                                                                                                                 .EXTRN
                                                                                                                             SYSSDCLEXH
                                                                                                                 .PSECT
                                                                                                                             _BAS$CODE,NOWRT, SHR, PIC.2
                                                                                    003C 00000
9E 00002
                                                                                                                             BAS$$DECL_EXITH, Save R2,R3,R4,R5
SYS$SETAST, R5
                                                                                                                 .ENTRY
                                                                                                                                                                                                   1061
                                                                00000000°
                                                                                                                 MOVAB
                                                                                                                             BASSSL_XIT_LOCK, R4
                                                                                            00009
                                                                                                                 MOVAB
                                                                                       D4
                                                                                            00010
                                                                                                                             -(SP)
                                                                                                                                                                                                   1105
                                                                                                                 CLRL
                                                                                                                            #1, SYS$SETAST
R0, AST STATUS
BAS$$L XIT LOCK, 1$
EXIT HANDLER, EXIT_BLOCK+4
#1, EXIT_BLOCK+8
EXIT_REASON, EXIT_BLOCK+12
                                                                                           00012
                                                                                 01
                                                                                                                 CALLS
                                                           65
53
21
A4
A4
                                                                                       DO
E8
9E
                                                                                            00015
                                                                                                                 MOVL
                                                                                                                                                                                                   1107
                                                                                            00018
                                                                                                                 BLBS
                                                   F4
F8
                                                                      0000V
                                                                                            0001B
                                                                                                                 MOVAB
                                                                                       90
9E
9F
                                                                                 01
                                                                                                                                                                                                   1114
                                                                                            0002
                                                                                                                 MOVL
                                                                         EC
FO
                                                                                 A440150103015050158F01
                                                                                            00025
                                                                                                                 MOVAB
                                                                                                                             EXIT_BLOCK
                                                                                            0002A
                                                                                                                 PUSHAB
                                                                                                                            #1, SYSSDCLEXH
RO, DCLEXH_STATUS
#1, BASSSL_XIT_LOCK
2$
                                                                                                                                                                                                   1116
                                                           00
52
64
                                           0000000G
                                                                                       FB
                                                                                            0002D
                                                                                                                 CALLS
                                                                                           00034
00037
                                                                                       DO
                                                                                                                 MOVL
                                                                                                                                                                                                   1117
1107
1120
1122
                                                                                                                 MOVL
                                                                                            0003A
                                                                                                                 BRB
                                                                                                                            M1 DCLEXH STATUS
AST STATUS, M9
                                                           52
                                                                                            0003C
                                                                                                                 MOVL
                                                                                       DO
                                                                                                                 CMPL
BNEQ
                                                                                            0003F
                                                                                           00042
                                                                                       DD
                                                                                                                 PUSHL
                                                                                           00046
00049
00040
00052
00059
                                                                                                                            W1. SYS$SETAST
DCLEXH STATUS.
WOTS$ FATINTERR
                                                                                                                 CALLS
                                                                                       EBD BBO
                                                                                                                                                                                                   1124
                                                                                                                 BLBS
                                                                00000000G
                                                                                                                 PUSHL
                                           00000000G
                                                                                                                 CALLS
                                                                                                                             #1. LTB$STOP
                                                                                                                                                                                                   1127
```

BASSSEXIT_HANDL

J 1 16-Sep-1984 00:26:46 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:54:57 [BASRTL.SRCJBASEXITHA.B32:1

; Routine Size: 90 bytes, Routine Base: _BAS\$CODE + 0000

: 224 1128 1

```
BASSSEXIT_HANDL
                                                                                                                               VAX-11 Bliss-32 V4.0-742
LBASRTL.SRCJBASEXITHA.B32:1
                                                                                                                                                                                  Page
                                   ROUTINE EXIT_HANDLER (
EXIT_REASON
): NOVACUE =
                                                                                                          Exit Handler
Reason
     FUNCTIONAL DESCRIPTION:
                                              This is the exit handler for BASIC. Its only function is to purge I/O buffers and close all files.
                                              Upon entry, it zeroes BAS$$L_XIT_LOCK so that user I/O in exit handlers can get properly cleaned up.
                                      FORMAL PARAMETERS:
                                              EXIT_REASON.rl.r
                                                                                 not used
                                      IMPLICIT INPUTS:
                                               NONE
                                      IMPLICIT OUTPUTS:
                                              BAS$$L_XIT_LOCK is zeroed.
                       1154
1155
1156
1157
1158
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1160
1161
1163
1164
1165
1166
                                      ROUTINE VALUE:
COMPLETION CODES:
                                              NONE
                                      SIDE EFFECTS:
                                              Closes all files by calling BAS$$CLOSE_ALL.
                                         BEGIN
                                        BAS$$L XIT LOCK = 0;
BAS$$CLOSE_ALL ();
                                                                                                        ! Clear exit handler interlock
                                         END:
                                                                                                        ! of routine EXIT_HANDLER
                                                                               0000 00000 EXIT_HANDLER:
                                                                                                                      Save nothing
BAS$$L_XIT_LOCK
#0, BAS$$CEOSE_ALL
                                                                                                                                                                                       1129
1165
1166
1167
                                                                                                            WORD
                                                                                      20000
80000
                                                                                  D4
FB
                                                             00000000
                                                                                                           CLRL
                                                                                                          CALLS
                                               0000V CF
                                                                                      0000D
 ; Routine Size: 14 bytes,
                                            Routine Base: _BAS$CODE + 005A
```

: 265

1168 1

Close all files Optional IFI to look for

VAX-11 Bliss-32 V4.0-742 LBASRTL.SRCJBASEXITHA.B32:1

Page (5)

GLOBAL ROUTINE BASSSCLOSE_ALL (
PARENT IFI
): NOVALUE = FUNCTIONAL DESCRIPTION: 1178 1179 1180 1181 1182 1183 1184 1186 1186 1187 1188 1190 1191 1192 1193 FORMAL PARAMETERS: 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 IMPLICIT INPUTS: NONE IMPLICIT OUTPUTS: NONE ROUTINE VALUE: COMPLETION CODES: NONE SIDE EFFECTS: 1212 1213 1214 1215 1216 1217 BEGIN BUILTIN NULLPARAMETER: 1218 1219 1220 1221 1222 GLOBAL REGISTER LOCAL FLAG. LUN:

find every existing LUB (with a linear search through the LUB table). For each LUB, if the file is open, purge its I/O buffers and close it. If the file has been marked for PRINT or DELETE, this will cause proper disposition of the file. RMS will close all open files at image exit, but it doesn't know about the above two DISPOSE conditions. We couldn't set them at OPEN time, since the user is allowed to specify a different DISPOSE option at close time (with the CLOSE statement). Note that BASIC does not yet have CLOSE options, so this code is a provision for the future.

PARENT_IFI.rl.v If present, close all files with M STREAM set and this IfI. This is used by CLOSE when closing a file which has multiple streams. The calls to OTS\$\$CLOSE_FILE will actually result in \$DISCONNECTS.

Closes all files. Signals CLOSE and DISCONNECT errors as warnings.

CCB = K_CCB_REG : REF BLOCK [, BYTE];

```
Scan through all BASIC logical units, closing them.
                                 FLAG = 0:
                                      BEGIN
                              Get the next logical unit number.
                                      BAS$$NEXT_LUN (FLAG, LUN);
                                      IF (.FLAG NEG 0)
THEN
                                            BEGIN
                              LUN is the next logical unit number. If the file it represents is open try to close it.
                                            BAS$$CB_PUSH (.LUN, LUB$K_ILUN_MIN);
                                            IF (.CCB [LUB$V_OPENED])
THEN
                                                 BEGIN
                                                 IF (NULLPARAMETER (1))
                                                 THEN
                                                      BEGIN
                                                       IF (.CCB [LUB$V_M_STR_C])
                                                            BEGIN
                              Close all the sons of the mother before closing the mother, i.e. if Y and Z are connected to X, and we are closing X, then we must close Y and Z and
358
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379
                              then close X.
                                                           BAS$$CLOSE ALL (.CCB [LUB$W_IF]]);
TRY_TO_CLOSE ();
END
                                                      ELSE
                                                            TRY_TO_CLOSE ();
                                                ELSE
                             Do the close (actually disconnect) only if the IFI matches and this is a connect.
                                                       IF (.CCB [LUB$V_M_STREAM] AND (.CCB [LUB$W_IFI] EQL .PARENT_IFI)) THEN TRY_TO_CLOSE ();
                                                 END:
                                            BASSSCB_POP ();
                                            END:
                                 UNTIL (.FLAG EQL 0);
```

BA'	SSEXIT_HAND	L							1	1 -Sep-	-1984 00:26 -1984 11:54	:46	VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASEXITHA.B32;1	Page 11
	381 382 383	1283 1284 1285	2	RETURN; END;									S\$\$CLOSE_ALL	
					5E	04		304 C2 D4	00000 00002 00005	10.	ENTRY SUBL2 CLRL	BAS\$\$ #8, S FLAG SP	CLOSE_ALL, Save R2,R11	; 1169 1228 1235
				00000000		04	AE 02 AE 41	D4 DDF FB D3	00008 0000A 0000D 00014 00017	18:	ENTRY SUBL2 CLRL PUSHL PUSHAB CALLS TSTL BEQL MNEGL	FLAG #2, B FLAG	AS\$\$NEXT_LUN	1237
					50 52 2B	00000000G	0A5A0A4060A60A60A00000000AA	DO 16 E9 95	00019 0001C 0001F 00025 00029		MNEGL MOVL JSB BLBC TSTB BEQL TSTL BNEQ BBC MOVZWL CALLS BRB BBC CMPZV	M8, R LUN BAS\$\$ -4(CC (AP)	0 R2 CB_PUSH B) 7 5\$	1244 1246 1250
				18 FF	AD	04	O5 AC OF	13	0002B 0002D 00030 00032	28:	BEQL TSTL BNEQ	4(AP)	1/CCD\ /#	
				C1	AB 7E AF	DO	AB 01	3C FB	00037 0003B 0003F	20:	MOVZWL	-48(C	1(CCB), 4\$ CB), -(SP) AS\$\$CLOSE_ALL	1254 1262
	04 AC	0	0	DE FF	AB 10		0E 02 00	E1 ED	00041	38:	BRB BBC CMPZV	#2 #0. #	1(CCB), 5\$ 16, -48(CCB), PARENT_IFI	1266 1275
				0000	/ CF	00000000G 04	05 00 00 AE	12 FB 16 D5	0004D 0004F 00054 0005A 0005D	4\$: 5\$: 6\$:	BNEQ CALLS JSB TSTL BNEQ	58	RY_TO_CLOSE CB_POP	1278 1282
							~ 7	04	0005F		RET	1.0		1285

; Routine Size: 96 bytes, Routine Base: _BAS\$CODE + 0068

1286 1

EXTERNAL REGISTER
CCB : REF BLOCK [, BYTE];

ENABLE CLOSE_HANDLER ();

Write output buffers, then RMS CLOSE the file.

BAS\$\$PUR_IO_CLO ();

IF (NOT OTS\$\$CLOSE_FILE ()) THEN BAS\$\$SIGNAL_IO (BAS\$K_IOERR_REC);

RETURN: END:

> 0000 00000 TRY_TO_CLOSE: - WORD

Save nothing 2\$, (FP)

001D CF DE 00002 60

MOVAL

(6)

BASSSEXIT_HANDL			C 2 16-Sep-1984 00:26:46 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 11:54:57 [BASRTL.SRC]BASEXITHA.B32;1	Page 13 (6)
	00000000G 00000000G	00 00 0A 7E 00	00 FB 00007 00 FB 0000E CALLS #0. BAS\$\$PUR_IO_CLD 50 E8 00015 BLBS RO. 1\$ 01 CE 00018 MNEGL #1(SP) 01 FB 0001B CALLS #1. BAS\$\$SIGNAL_IO 04 00022 15: RET 0000 00023 25: WORD Save nothing	1330 1332 1335 1319
	0000v	7E CF	0000 00023 2%: WORD Save nothing 7E D4 00025 CLRL -(SP) 5E DD 00027 PUSHL SP 04 AC 7D 00029 MOVQ 4(AP), -(SP) 03 FB 0002D CALLS #3, CLOSE_HANDLER 04 00032 RET	0

Page 14 (7)

BA 1-	SSSEXIT_HANDL						1	E 2 6-Sep- 4-Sep-	1984 00:26 1984 11:54	:46	VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASEXITHA.B32;1	Page 1
	493 494 495 496 497 498 499 500 501 502 503 504 505	1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405	RE	COTHERWISE) BEGIN O END; TES; TURN (SS\$_RES		V SE						
						0	000 00000	CLOSE	HANDLER:			
	02 04		51 51	50 51 03	04	AC AO 00 07 00 07	DO 00002 DO 00006 ED 0000A 13 0000F ED 00011 12 00016		HANDLER: .WORD MOVL MOVL CMPZV BEQL CMPZV	\$1G. 4(RO) #0.	nothing RO), COND_VALUE #3, COND_VALUE, #2	1336 1386 1396
				04 A0 50	0918	07 07 51 8F	12 00016 8A 00018 D0 0001B 3C 0001F 04 00024	1\$:	BNEQ BICB2 MOVL MOVZWL RET	25 #7, COND #2321	COND VALUE VALUE, 4(RO) B, RO	1399 1399 1409
: 1	Routine Size:	37 byt	es,	Routine Base:	_BAS\$CO	DE +	00FB					
:	506 507 508	1406 1 1407 1 1408 0	ELUDOM						! End of	BAS\$\$(EXIT_HANDL module	
:				PSEC	T SUMMARY							
	Name			Bytes	JOHNAKI		At	tribut	s			
:	BASSDATA BASSCODE			288	NOVEC, WI	RT.	RD . NOEX	E , NOSHI E , SHI	ו. נכנ: מ: נכנ:	REL.	CON. PIC.ALIGN(2) CON. PIC.ALIGN(2)	
:				Library Sta	tistics							
:	File				Total		mbols aded Pe	rcent	Pages Mappe	d	Processing Time	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE) /NOTRACE/LIS=LIS\$: BASEXITHA/OBJ=OBJ\$: BASEXITHA MSRC\$: BASEXITHA/UPDATE=(ENH\$: BASEXITHA

: Size: 288 code + 24 data bytes
: Run Time: 00:12.0
: Elapsed Time: 00:28.2
: Lines/CPU Min: 7028
: Lexemes/CPU-Min: 31202
: Memory Used: 115 pages
: Compilation Complete

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